

PFB500

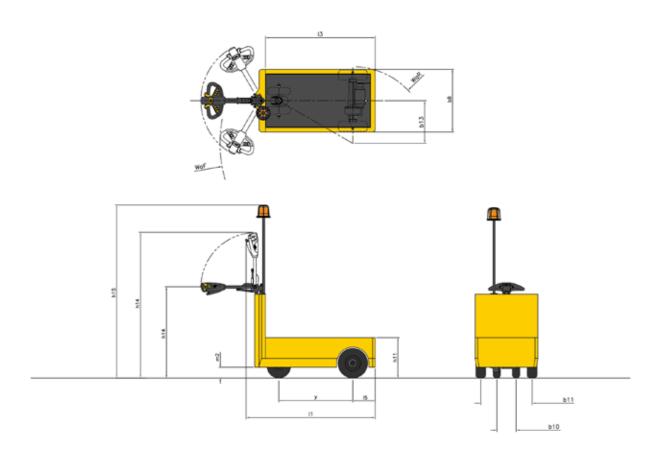
500kg Pedestrian Load Carrier

24 volt DC controller

3 Wheels



PFB500 - PEDESTRIAN TOW TRACTOR





1.1 Manufacturer (abbreviation) BEV PFBSO-01	VDI :	2198	TECHNICAL FEATURES		PFB500
3.1 Tyres: P-Pheumatic P	DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)		BEV
3.1 Tyres: P-Pheumatic P		1.2	Manufacturer's type designition		PFB500-01
3.1 Tyres: P-Pheumatic P		1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Battery
3.1 Tyres: P-Pheumatic P		1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian
1 1 1 2 2 2 2 2 2 2		1.5	Rated capacity / Rated load	Q (t)	0.5
3.2 Tyre size, front		1.9	Wheelbase	y (mm)	825
3.3 Tyre size, rear		3.1	Tyres: P=Pneumatic		Р
3.9 Wheels braked service brake, number 2 x Rear 3.10 Wheels braked parking brake 2 x Rear 4.2.0 Height, mast lowered h 1 (mm) 1930 4.2.1 Overalt height h 15 (mm) 1930 4.2.1 Length of loading surface 1.3 (mm) 1225 4.16 Length of loading surface 1.5 (mm) 250 4.17 Overhang 1.5 (mm) 700 4.18 Width of loading surface b 9 (mm) 700 4.19 Overalt length 1.1 (mm) 1448 4.21 Overalt length 1.1 (mm) 1448 4.22 Ground clearance, centre of wheelbase m 2 (mm) 120 4.35 Turning radius W a F (mm) 1481 4.35 Turning radius W a F (mm) 856 4.36 Internal turning radius W a R (mm) 856 5.1.1 Travel speed, laden / unladen 5.7 Gradeability, laden / unladen 5.8 Max. gradeability, laden / unladen 5.8 Max. gradeability, laden / unladen 8 10 / 20 5.8 Max. gradeability, laden / unladen 8 10 / 20 5.8 Max. gradeability, laden / unladen 8 10 / 20 5.10 Service brake Electro Magnetic Brake on Motor 8.11 Service brake Electric Magnetic Brake on Motor 8.12 Parking brake Electric Magnetic Brake on Motor 8.13 Service brake Electric Magnetic Brake on Motor 8.14 Service brake Electro Magnetic Brake on Motor 8.15 Parking brake Electro Magnetic Brake on Motor 8.16 Parking brake Electro Magnetic Brake on Motor 8.17 Parking brake Electro Magnetic Brake on Motor 8.18 Parking brake Electro Magnetic Brake on Motor 8.19 Parking brake Electro Magnetic Brake on Motor 8.10 Remove Remove Remove Remove 8.11 Service brake Electro Magnetic Brake on Motor 8.12 Parking brake Electro Magnetic Brake on Motor 8.13 Parking brake Electro Magnetic Brake on Motor 8.14 Parking brake Electro Magnetic Brake on Motor 8.15 Parking brake Electro Magnetic Brake on Motor		3.2	Tyre size, front	ø x width (mm)	260 x 85
3.9 Wheels braked service brake, number 2 x Rear 3.10 Wheels braked parking brake 2 x Rear 4.2.0 Height, mast lowered h 1 (mm) 1930 4.2.1 Overall height unladen h 11 (mm) 450 4.13 Loading height, unladen h 11 (mm) 450 4.16 Length of loading surface 1.5 (mm) 250 4.17 Overhang 1.5 (mm) 700 4.18 Width of loading surface b 9 (mm) 700 4.19 Overall length 1 (mm) 1448 4.21 Overall width b 1 / b 2 (mm) 700 4.32 Ground clearance, centre of wheelbase m 2 (mm) 120 4.35 Turning radius W a F (mm) 1481 4.35 Turning radius W a F (mm) 856 4.36 Internal turning radius W a R (mm) 856 4.36 Internal turning radius km/h 6 5.11 Travel speed, laden / unladen % 10 / 20 5.8 Max. gradeability, laden / unladen % 10 / 20 5.10 Service brake Electron Magnetic Brake on Motor 8.11 Service brake Electric Magnetic Brake on Motor 8.12 Parking brake Electric Magnetic Brake on Motor 8.13 Service brake Electric Magnetic Brake on Motor 8.14 Service brake Electric Magnetic Brake on Motor 8.15 Parking brake Electric Magnetic Brake on Motor 8.16 Parking brake Electric Magnetic Brake on Motor 8.17 Parking brake Electric Magnetic Brake on Motor 8.18 Parking brake Electric Magnetic Brake on Motor 8.19 Parking brake Electric Magnetic Brake on Motor 8.10 Parking brake Electric Magnetic Brake on Motor 8.11 Electric Magnetic Brake on Motor 8.12 Parking brake Electric Magnetic Brake on Motor 8.13 Parking brake Electric Magnetic Brake on Motor 8.14 Parking brake Electric Magnetic Brake on Motor 8.15 Parking brake Electro Magnetic Brake on Motor 8.16 Parking brake Electro Magnetic Brake on Motor 8.17 Parking brake Electro Magnetic Brake on Motor 8.18 Parking brake Electro Magnetic Brake on Motor 8.19 Parking brake Electro Magnetic Brake on Motor	RES	3.3	Tyre size, rear	ø x width (mm)	330 x 110
3.9 Wheels braked service brake, number 2 x Rear 3.10 Wheels braked parking brake 2 x Rear 4.2.0 Height, mast lowered h 1 (mm) 1930 4.2.1 Overall height unladen h 11 (mm) 450 4.13 Loading height, unladen h 11 (mm) 450 4.16 Length of loading surface 1.5 (mm) 250 4.17 Overhang 1.5 (mm) 700 4.18 Width of loading surface b 9 (mm) 700 4.19 Overall length 1 (mm) 1448 4.21 Overall width b 1 / b 2 (mm) 700 4.32 Ground clearance, centre of wheelbase m 2 (mm) 120 4.35 Turning radius W a F (mm) 1481 4.35 Turning radius W a F (mm) 856 4.36 Internal turning radius W a R (mm) 856 4.36 Internal turning radius km/h 6 5.11 Travel speed, laden / unladen % 10 / 20 5.8 Max. gradeability, laden / unladen % 10 / 20 5.10 Service brake Electron Magnetic Brake on Motor 8.11 Service brake Electric Magnetic Brake on Motor 8.12 Parking brake Electric Magnetic Brake on Motor 8.13 Service brake Electric Magnetic Brake on Motor 8.14 Service brake Electric Magnetic Brake on Motor 8.15 Parking brake Electric Magnetic Brake on Motor 8.16 Parking brake Electric Magnetic Brake on Motor 8.17 Parking brake Electric Magnetic Brake on Motor 8.18 Parking brake Electric Magnetic Brake on Motor 8.19 Parking brake Electric Magnetic Brake on Motor 8.10 Parking brake Electric Magnetic Brake on Motor 8.11 Electric Magnetic Brake on Motor 8.12 Parking brake Electric Magnetic Brake on Motor 8.13 Parking brake Electric Magnetic Brake on Motor 8.14 Parking brake Electric Magnetic Brake on Motor 8.15 Parking brake Electro Magnetic Brake on Motor 8.16 Parking brake Electro Magnetic Brake on Motor 8.17 Parking brake Electro Magnetic Brake on Motor 8.18 Parking brake Electro Magnetic Brake on Motor 8.19 Parking brake Electro Magnetic Brake on Motor	/ TY	3.5	Wheels, number front / rear (x = driven wheels)		2 / 2X
3.9 Wheels braked service brake, number 2 x Rear 3.10 Wheels braked parking brake 2 x Rear 4.20 Height, mast lowered h 1 (mm) 1930 4.21 Overall height unladen h 11 (mm) 450 4.12 Loading height, unladen h 11 (mm) 450 4.13 Loading height, unladen 1225 4.16 Length of loading surface 15 (mm) 250 4.17 Overhang 15 (mm) 700 4.18 Width of loading surface b 9 (mm) 700 4.19 Overall length 11 (mm) 1448 4.21 Overall width b 1 / b 2 (mm) 700 4.32 Ground clearance, centre of wheelbase m 2 (mm) 120 4.35 Turning radius W a F (mm) 856 4.36 Internal turning radius W a R (mm) 856 4.36 Internal turning radius W a F (mm) 476 5.11 Travel speed, laden / unladen 5 (radeaphility, laden /	ELS	3.6	Track, front	b 10 (mm)	215
3.10 Wheels braked parking brake 2 x Rear	WHE	3.7	Track, rear	b 11 (mm)	573
A2.0 Height, mast lowered		3.9	Wheels braked service brake, number		2 x Rear
A2.1 Overall height h 15 (mm) 1930		3.10	Wheels braked parking brake		2 x Rear
A-13 Loading height, unladen		4.2.0	Height, mast lowered	h 1 (mm)	1930
A-16 Length of loading surface L3 (mm) 1225		4.2.1	Overall height	h 15 (mm)	1930
15 mm 250		4.13	Loading height, unladen	h 11 (mm)	450
A-18 Width of loading surface b 9 (mm) 700		4.16	Length of loading surface	l 3 (mm)	1225
A.21 Overalt winth	S	4.17	Overhang	l 5 (mm)	250
A.21 Overalt Winth A.22 Ground clearance, centre of wheelbase M 2 (mm) 120	SION	4.18	Width of loading surface	b 9 (mm)	700
A.21 Overalt Winth A.22 Ground clearance, centre of wheelbase M 2 (mm) 120	M N N	4.19	Overall length	l 1 (mm)	1448
4.35 Turning radius W a F (mm) 1481 4.35 Turning radius W a R (mm) 856 4.36 Internal turning radius b 13 (mm) 476 5.1 Travel speed, laden / unladen km/h 6 5.1.1 Travel speed, laden / unladen, backwards km/h 6 5.7 Gradeability, laden / unladen % 10 / 20 5.8 Max. gradeability, laden / unladen % 10 / 20 5.10 Service brake Electro Magnetic Brake on Motor 8.11 Type of drive unit A/C controller 8.12 Parking brake Electro Magnetic Brake on Motor 8.12 Parking brake Electro Magnetic Brake on Motor 6.13 Transfer of power Helical Gears 6.14 Electro Magnetic Brake on Motor 6.15 Electro Magnetic Brake on Motor 7.16 Electro Magnetic Brake on Motor 8.17 Electro Magnetic Brake on Motor 8.18 Electro Magnetic Brake on Motor 8.19 Electro Magnetic Brake on Motor 8.10 Electro Magnetic Brake on Motor 8.11 Electro Magnetic Brake on Motor 8.12 Electro Magnetic Brake on Motor 8.13 Electro Magnetic Brake on Motor 8.14 Electro Magnetic Brake on Motor 8.15 Electro Magnetic Brake on Motor 8.10 Electro Magnetic Brake on Motor 8.11 Electro Magnetic Brake on Motor 8.12 Electro Magnetic Brake on Motor 8.13 Electro Magnetic Brake on Motor 8.14 Electro Magnetic Brake on Motor 8.15 Electro Magnetic Brake on Motor 8.16 Electro Magnetic Brake on Motor 8.17 Electro Magnetic Brake on Motor 8.18 Electro Magnetic Brake on Motor 8.19 Electro Magnetic Brake on Motor 8.10 Electro Magnetic Brake on Motor 8.11 Electro Magnetic Brake on Motor 8.12 Electro Magnetic Brake on Motor 8.15 Electro Magnetic Brake on Motor 8.16 Electro Magnetic Brake on Motor 8.17 Electro Magnetic Brake on Motor 8.18 Electro Magnetic Brake on Motor 8.10 Electro Magnetic Brake on Motor 8.11 Electro Magnetic Brake on Motor 8.12 Electro Magnetic Brake on Motor 8.15 Electro Magnetic Bra	П	4.21	Overall width	b 1 / b 2 (mm)	700
4.35 Turning radius W a R (mm) 856 4.36 Internal turning radius b 13 (mm) 476 5.1 Travel speed, laden / unladen km/h 6 5.1.1 Travel speed, laden / unladen backwards km/h 6 5.7 Gradeability, laden / unladen % 10 / 20 5.8 Max. gradeability, laden / unladen % 10 / 20 5.10 Service brake Electro Magnetic Brake on Motor 8.11 Type of drive unit A/C controller 8.12 Parking brake Electro Magnetic Brake on Motor 8.12 Parking brake Electro Magnetic Brake on Motor 8.13 Type of Motor Helical Gears 8.14 Service brake Electro Magnetic Brake on Motor 8.15 Farking brake Electro Magnetic Brake on Motor 8.16 Farking brake Electro Magnetic Brake on Motor 8.17 Farking brake Electro Magnetic Brake on Motor 8.18 Farking brake Electro Magnetic Brake on Motor 8.19 Farking brake Electro Magnetic Brake on Motor 8.10 Farking brake Electro Magnetic Brake on Motor 8.11 Farking brake Electro Magnetic Brake on Motor 8.12 Farking brake Electro Magnetic Brake on Motor 8.13 Farking brake Electro Magnetic Brake on Motor 8.14 Farking brake Electro Magnetic Brake on Motor 8.15 Farking brake Electro Magnetic Brake on Motor 8.16 Farking brake Electro Magnetic Brake on Motor 8.17 Farking brake Electro Magnetic Brake on Motor 8.18 Farking brake Electro Magnetic Brake on Motor 8.19 Farking brake Electro Magnetic Brake on Motor 8.10 Farking brake Electro Magnetic Brake on Motor 8.11 Farking brake Electro Magnetic Brake on Motor 8.12 Farking brake Electro Magnetic Brake on Motor 8.13 Farking brake Electro Magnetic Brake on Motor 8.14 Farking brake Electro Magnetic Brake on Motor 8.15 Farking brake Electro Magnetic Brake on Motor 8.16 Farking brake Electro Magnetic Brake on Motor 8.17 Farking brake Electro Magnetic Brake on Motor 8.18 Farking brake Electro Magne		4.32	Ground clearance, centre of wheelbase	m 2 (mm)	120
4.36 Internal turning radius 5.1 Travel speed, laden / unladen 5.1.1 Travel speed, laden / unladen 5.1.2 Gradeability, laden / unladen, backwards 5.7 Gradeability, laden / unladen 5.8 Max. gradeability, laden / unladen 5.10 Service brake 8.1 Type of drive unit 8.10 Transfer of power 8.11 Service brake 8.12 Parking brake b 13 (mm) 476 6 476 6 6 10 / 20 7 8 10 / 20 10 / 20 10 / 2		4.35	Turning radius	W a F (mm)	1481
S.1 Travel speed, laden / unladen 6		4.35	Turning radius	W a R (mm)	856
Solid Parking brake Solid Parking brake		4.36	Internal turning radius	b 13 (mm)	476
Service brake Service brak		5.1	Travel speed, laden / unladen	km/h	6
Service brake Service brak	NCE	5.1.1	Travel speed, laden / unladen, backwards	km/h	6
Service brake Brake on Motor	RMA	5.7	Gradeability, laden / unladen	%	10 / 20
Service brake Brake on Motor	ERFO	5.8	Max. gradeability, laden / unladen	%	10 / 20
8.10 Transfer of power 8.11 Service brake 8.12 Parking brake 1 Helical Gears Electric Magnetic Brake on Motor Electro Magnetic Brake on Motor	<u>a</u>	5.10	Service brake		
8.11 Service brake 8.12 Parking brake Electric Magnetic Brake on Motor Electro Magnetic Brake on Motor		8.1	Type of drive unit		A/C controller
8.12 Parking brake Electro Magnetic Brake on Motor	щ	8.10	Transfer of power		Helical Gears
8.12 Parking brake Brake on Motor	DRIV	8.11	Service brake		Brake on Motor
MISC 10.7 Sound pressure level at the driver's seat dB (A) 54.5		8.12	Parking brake		
	MISC	10.7	Sound pressure level at the driver's seat	dB (A)	54.5

BATTERY SIZE & VEHICLE WEIGHTS				PFB501-01 PEDESTRIAN LOAD CARRIER	
BATTERY		Battery type		Lead	Gel MF
	6.1	Drive motor S2 60 minute rating	(kW)	0.375	0.375
	6.4	Battery voltage	(V/Ah)	24 / 185	24 / 154
	6.5	Battery weight	(kg)	116	124
WEIGHTS	2.1.1	Service weight excluding battery	(kg)	196	196
	2.1.0	Service weight including battery	(kg)	312	320
	2.3	Axle loading, unladen front / rear	(kg)	144 / 168	148 / 172

	MODEL	PFB500
	Configuration	3 wheel
VEHICLE OVERVIEW	Power unit: 24 volt DC controller	•
	Payload capacity	500kg
	Tow load capacity (requires optional tow hitch)	500kg
	Welded steel chassis, painted	•
	Rear drive axle with limited slip differential	•
	Standard ambient operating temperatures -10 to +40	•
ERIES	24v 185Ah lead acid (4 x 6volt monobloc linked in series)	0
BATTERIES	24v 154Ah gel maintenance free (4 x 6volt monobloc linked in series)	0
91	Electronic regenerative braking under deceleration	•
BRAKING	Dynamic speed sensing to prevent over-speeding in all driving conditions	•
BR	Automatically applied transmission parking brake	•
LIGHTING / ACCESSORIES	Lighting option includes: Twin front side lights, twin tail and brake lights, indicators, hazard warning lights, reverse light, 7 pin trailer socket	0
TING	Amber flashing beacon mounted on pole / body	•
LIGH	Blue spot warning light - rear only	0
₹	Rear mounted 24 volt working light	0
GS	Robust ergonomically designed Curtis IP rated tiller head unit	•
N N	Maximum speed can be pre-set to a maximum of 6.0 kph (Please specify speed setting at time of order)	•
WAF	High / Low speed switch on tiller head (Please specify speed settings at time of order)	0
IBLE	Body protection switch fitted to tiller head	•
AUD	Emergency stop button	•
rs/	Horn	•
CONTROLS / AUDIBLE WARNINGS	Automatic audible warning in reverse	•
CON	Automatic white noise audible warning in forward	0
INSTRUMENTS	Battery discharge indicator	•
RUMI	Hour meter	0
INSTI	Keypad in place of standard key switch	0
(0	Pneumatic	•
TYRES	Foam filled puncture proof	0
-	Foam filled puncture proof non marking	0
	No tow hitch fitted	•
_	20mm pin multi jaw tow hitch	0
том нітсн	25mm pin multi jaw tow hitch	0
J WC	Combined 50mm ball and 25mm single jaw	0
Ĕ	50mm ball adapter fits in any one of the three jaws on the standard tow hitch	0
	Tow hitch specific for site requirement	0
	Plywood deck board	•
	Extended or reduced load bed options available	0
BED	Pick-up - aluminium sides	0
LOAD BED	Cage body	0
	Pick-up - aluminium sides with PVC cover	0
	Removable aluminium platform overlay	0
MISC	1kg dry powder fire extinguisher	0
UR	Chassis / panels: Safety Yellow BS356	•
COLOUR	Custom colour. Panels to customer's single colour specification. RAL number to be supplied at time of order	0
Ö		



INSTRUMENTS & CONTROLS

- Robust ergonomically designed Curtis IP rated tiller head unit
- Maximum speed can be pre-set to a maximum of 6.0 kph
- · Speed limit potentiometer
- Body protection switch
- Horn

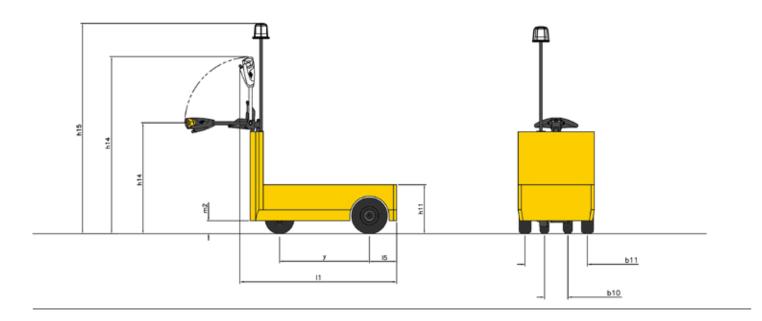
BRAKING SYSTEMS

- Electronic regenerative braking under deceleration
- Dynamic speed sensing to prevent over-speeding in all driving conditions
- Automatically applied transmission parking brake

PLATFORM

• Resin coated anti-slip plywood deck

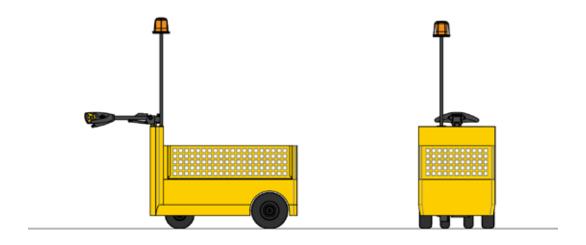
BODY CODE	-01	
	Length	1225mm
PLATFORM DIMENSIONS	Width	700mm
	Platform Height	450mm
MODEL CODE		PFB500-01



ALUMINIUM PICK-UP

- 500mm high fixed front bulkhead
- 310mm high drop-in steel punch sides and rear panel
- Slot in removable rear corner posts

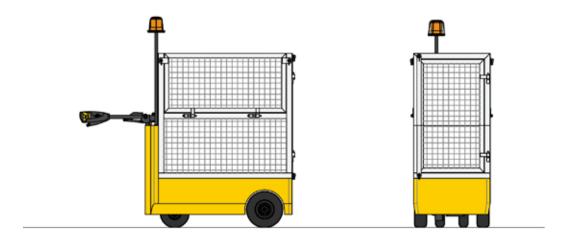
BODY CODE	-02	
	Length (Internal)	1140mm
DIMENSIONS	Width (Internal)	644mm
DIMENSIONS	Height	310mm
	Platform Height	450mm
MODEL CODE		PFB500-02



CAGE BODY

- 25mm mesh cage body
- Single rear opening door
- Half dropdown section to both sides

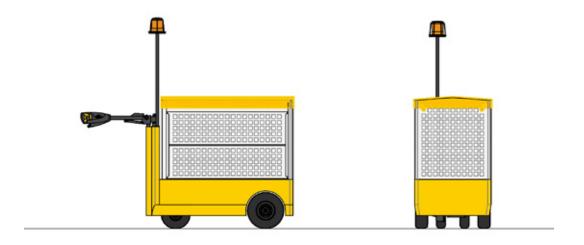
BODY CODE	-03	
	Length (Internal)	1125mm
DIMENCIONS	Width (Internal)	620mm
DIMENSIONS	Height	1095mm
	Rear Loading Height	500mm
MODEL CODE		PFB500-03



ALUMINIUM PICK-UP PVC COVER

- PVC cover to all four sides,
- Roll up sides and rear panel
- 500mm high fixed front bulkhead
- 310mm high drop-in steel punch sides and rear panel
- Slot in removable rear corner posts
- Resin coated anti-slip plywood deck

BODY CODE	-05		
	Length (Internal)	1115mm	
DIMENSIONS	Width (Internal)	648mm	
DIMENSIONS	Height	750mm	
	Platform Height	450mm	
MODEL CODE		PFB500-05	





BRADSHAW ELECTRIC VEHICLES

New Lane

Stibbington

Peterborough

PE8 6LW

enquiries@bradshawev.com

www.bradshawEV.com

01780 782 621

All data and specifications are in accordance with information available at the time of publication and are subject to change without notice.

Some of the vehicles shown are may be fitted with optional equipment or accessories that are available at extra cost.

This brochure supersedes all previous publications. Issue: December 2020

